

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247631

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90835 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8758.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

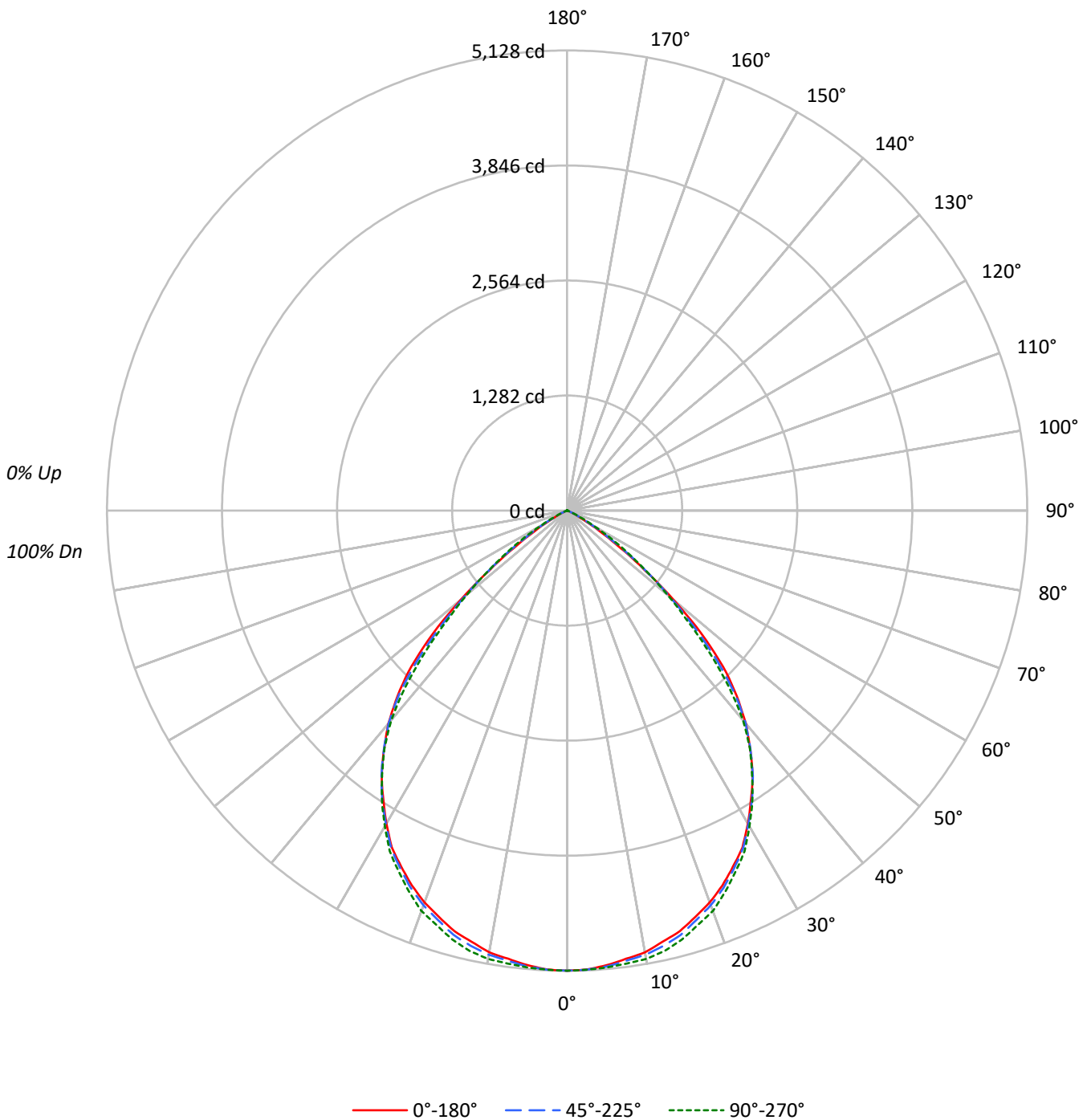
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	158129	158129	158129
5°	157408	157826	158210
10°	156510	157359	158840
15°	154934	156262	157954
20°	152457	153566	155820
25°	148913	149720	151060
30°	143410	143769	144691
35°	135632	135843	135293
40°	124634	124497	122775
45°	107169	102800	98086
50°	74507	71863	69863
55°	38875	42262	44746
60°	15770	18613	21604
65°	5013	6166	6574
70°	712	406	207
75°	0	0	0
80°	1794	408	604
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.3	5.5
10°-20°	1378.1	15.7
20°-30°	2024.5	23.1
30°-40°	2241.4	25.6
40°-50°	1786.3	20.4
50°-60°	731.9	8.4
60°-70°	107.8	1.2
70°-80°	1.6	0.0
80°-90°	2.2	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3886.9	44.4
0°-40°	6128.3	70.0
0°-60°	8646.5	98.7
0°-90°	8758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5128	5128	5128	5128	5128	
5°	5085	5094	5099	5107	5111	482
15°	4853	4856	4895	4941	4948	1366
25°	4377	4372	4400	4426	4440	2013
35°	3603	3598	3609	3604	3594	2239
45°	2458	2435	2357	2270	2249	1844
55°	723	748	786	831	832	696
65°	69	72	84	92	90	91
75°	0	0	0	0	0	3
85°	0	0	0	4	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5128.0	5128.0	5128.0	5128.0	5128.0
2.5°	5119.0	5120.1	5120.1	5114.5	5121.2
5°	5085.2	5094.2	5098.7	5106.6	5111.1
7.5°	5037.9	5035.6	5059.3	5087.4	5090.8
10°	4998.4	4993.9	5025.5	5062.6	5072.8
12.5°	4920.7	4926.4	4966.9	5005.2	5025.5
15°	4853.2	4856.5	4894.8	4941.0	4947.8
17.5°	4748.4	4758.5	4784.5	4832.9	4841.9
20°	4645.9	4650.4	4679.7	4719.1	4748.4
22.5°	4520.9	4528.8	4551.3	4586.2	4600.9
25°	4376.7	4372.2	4400.4	4426.3	4439.8
27.5°	4230.3	4222.4	4243.8	4268.6	4281.0
30°	4027.6	4025.3	4037.7	4053.5	4063.6
32.5°	3814.7	3820.4	3832.7	3837.2	3840.6
35°	3603.0	3598.5	3608.6	3604.1	3594.0
37.5°	3351.8	3355.2	3355.2	3350.7	3346.2
40°	3096.2	3099.5	3092.8	3068.0	3050.0
42.5°	2796.6	2798.8	2763.9	2708.7	2671.5
45°	2457.5	2435.0	2357.3	2269.5	2249.2
47.5°	2030.7	1992.4	1911.3	1844.9	1821.2
50°	1553.1	1525.0	1498.0	1463.0	1456.3
52.5°	1089.1	1103.8	1113.9	1125.2	1121.8
55°	723.1	747.9	786.1	831.2	832.3
57.5°	434.7	462.9	511.3	560.9	584.5
60°	255.7	266.9	301.8	339.0	350.3
62.5°	138.5	141.9	157.7	194.8	189.2
65°	68.7	72.1	84.5	92.4	90.1
67.5°	33.8	37.2	39.4	50.7	41.7
70°	7.9	2.3	4.5	5.6	2.3
72.5°	0.0	0.0	2.3	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.3	0.0	0.0	0.0	4.5
80°	10.1	6.8	2.3	2.3	3.4
82.5°	3.4	1.1	3.4	1.1	0.0
85°	0.0	0.0	0.0	4.5	0.0
87.5°	5.6	1.1	1.1	3.4	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)